



Water-Data Report 2008

01410000 OSWEGO RIVER AT HARRISVILLE, NJ

MULLICA RIVER BASIN

LOCATION.--Lat 39°39'48", long 74°31'25" referenced to North American Datum of 1983, Washington Township, Burlington County, NJ, Hydrologic Unit 02040301, on right bank 50 ft downstream from bridge on County Route 679 at Harrisville, and 0.3 mi upstream from confluence with West Branch Wading River.

DRAINAGE AREA.--72.5 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1302. Prior to October 1955, published as "East Branch Wading River at Harrisville".

REVISED RECORDS.--WDR NJ-83-1: Drainage area.

GAGE.--Water-stage recorder. Concrete control since June 23, 1939. Datum of gage is 4.62 ft above NGVD of 1929.

REMARKS.--Records good. Figures given herein represent flow over main spillway and through bypass channel. Flow regulated by Harrisville Pond, 200 ft above station, capacity, about 30,000,000 gal and by ponds and cranberry bogs 5 to 10 mi upstream. Flow probably reduced by ground-water outflow to nearby surface drainage basins, such as Oyster Creek. Several measurements of water temperature were made during the year. Satellite gage-height telemetry at station.

Water-Data Report 2008

01410000 OSWEGO RIVER AT HARRISVILLE, NJ—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	40	47	31	139	92	84	76	57	63	34	30	24
2	28	44	31	122	158	80	71	53	56	32	31	24
3	28	42	49	105	168	77	66	50	51	32	30	25
4	28	39	41	96	145	75	85	48	63	32	30	26
5	29	38	40	90	127	91	90	47	73	37	30	25
6	29	42	40	87	120	94	93	45	67	36	28	41
7	33	42	40	82	116	97	90	44	61	36	28	76
8	38	40	40	74	105	225	91	44	56	35	27	81
9	37	40	40	71	92	290	110	62	51	34	27	70
10	52	40	41	66	87	288	126	81	47	34	46	79
11	51	39	41	87	79	248	111	80	43	33	175	66
12	46	39	40	101	73	211	117	92	41	34	114	57
13	37	40	39	99	105	177	126	120	40	31	84	56
14	33	40	43	120	149	138	132	121	38	31	72	50
15	32	41	44	116	160	125	116	93	39	32	60	44
16	29	41	75	106	143	110	98	83	41	30	51	41
17	28	40	87	102	126	99	86	88	40	28	47	42
18	28	39	85	126	124	99	77	87	39	28	45	41
19	41	40	75	129	116	108	72	83	43	28	41	38
20	47	40	68	118	104	105	72	82	40	27	40	35
21	47	40	64	102	94	93	74	96	38	27	40	31
22	44	41	61	95	91	87	74	91	36	25	36	30
23	41	40	78	95	95	80	67	81	36	24	35	36
24	45	37	124	90	97	76	59	74	36	35	33	34
25	60	35	124	83	92	72	54	69	34	31	32	34
26	60	38	115	77	90	70	51	61	35	28	32	42
27	65	45	107	72	96	66	50	56	34	37	32	42
28	65	45	99	69	93	66	54	65	33	43	33	45
29	59	41	127	65	87	64	65	59	32	34	33	57
30	52	35	136	66	---	61	62	53	38	32	29	49
31	48	---	149	65	---	61	---	54	---	32	26	---
Total	1,300	1,210	2,174	2,915	3,224	3,617	2,515	2,219	1,344	992	1,397	1,341
Mean	41.9	40.3	70.1	94.0	111	117	83.8	71.6	44.8	32.0	45.1	44.7
Max	65	47	149	139	168	290	132	121	73	43	175	81
Min	28	35	31	65	73	61	50	44	32	24	26	24
Cfsm	0.58	0.56	0.97	1.30	1.53	1.61	1.16	0.99	0.62	0.44	0.62	0.62
In.	0.67	0.62	1.12	1.50	1.65	1.86	1.29	1.14	0.69	0.51	0.72	0.69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	62.8	80.7	82.6	100	102	117	112	94.6	71.1	64.6	73.2	61.6
Max	176	234	200	242	210	255	253	261	162	201	207	166
(WY)	(1959)	(1973)	(1973)	(1979)	(1939)	(1998)	(1970)	(1998)	(1998)	(1938)	(1933)	(2006)
Min	28.6	28.6	27.1	31.2	28.8	40.5	41.3	43.1	33.7	24.2	23.9	24.4
(WY)	(1966)	(2002)	(1966)	(2002)	(2002)	(2002)	(1985)	(2002)	(1966)	(1977)	(1957)	(1951)

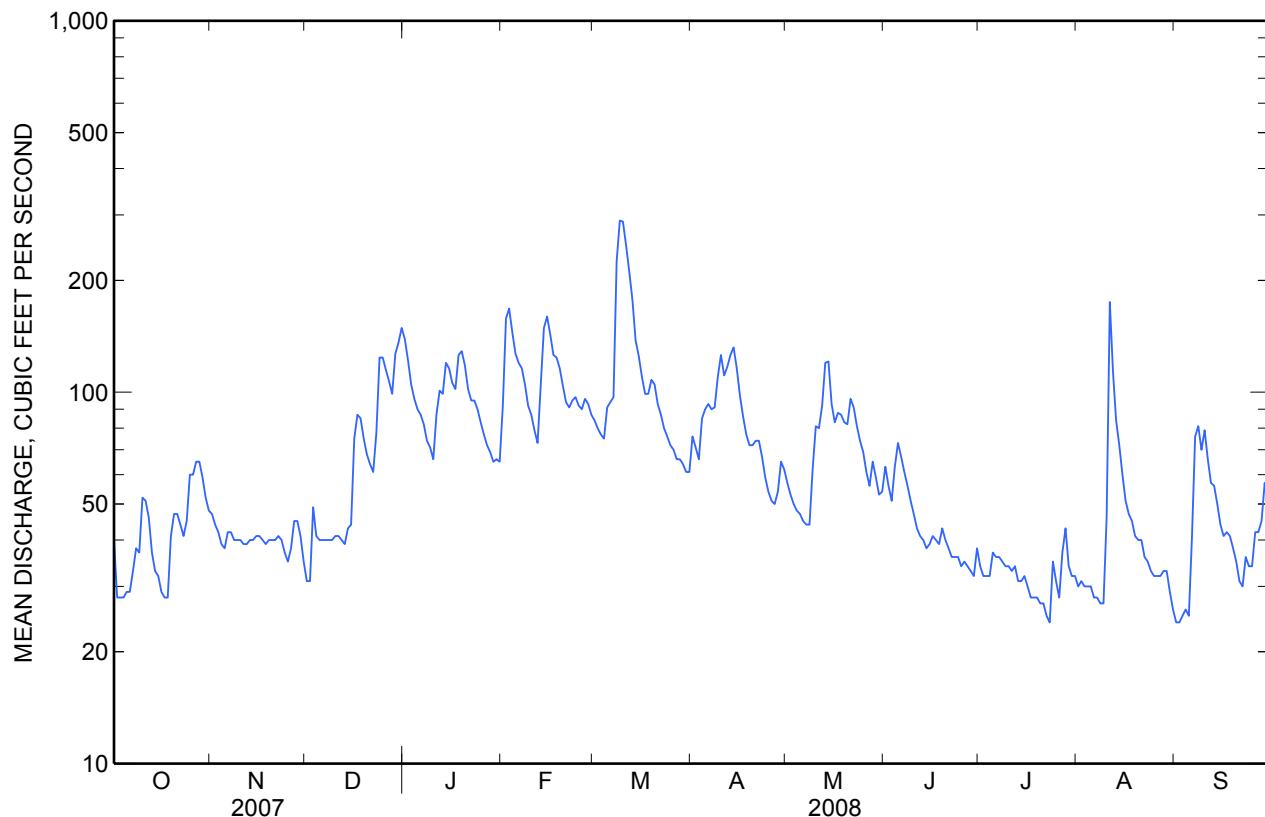
01410000 OSWEGO RIVER AT HARRISVILLE, NJ—Continued**SUMMARY STATISTICS**

	Calendar Year 2007		Water Year 2008		Water Years 1931 - 2008	
Annual total	29,479		24,248		85.1	
Annual mean	80.8		66.3		138	1978
Highest annual mean					36.7	2002
Lowest annual mean						
Highest daily mean	549	Apr 17	290	Mar 9	1,220	Aug 20, 1939
Lowest daily mean	28	Sep 19	24	Many days	4.0	Jun 23, 1967
Annual seven-day minimum	30	Sep 16	26	Aug 30	14	Sep 7, 1966
Maximum peak flow			303	Mar 9	^a 1,390	Aug 20, 1939
Maximum peak stage			4.01	Mar 9	^b 9.54	Aug 20, 1939
Instantaneous low flow			23	Many days	^c 0.00	Oct 26, 1932
Annual runoff (cfsm)	1.11		0.914		1.17	
Annual runoff (inches)	15.13		12.44		15.96	
10 percent exceeds	144		116		147	
50 percent exceeds	64		54		70	
90 percent exceeds	34		31		36	

^a From rating curve extended above 840 ft³/s by logarithmic plotting.

^b From high-water mark in gage house.

^c While pond filling.



01410000 OSWEGO RIVER AT HARRISVILLE, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1925, 1959-71, 1974, 1976-96, 2004, 2007-08.

REMARKS.--Cooperative Network Site Descriptor: Trace Element Assessment (303d) special study site.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Date	Time	Turbdty			Specif-						Zinc, water, unfltrd recover
		white light, det ang 90+/-30 corrctd	Baro- metric pres- sure, NTRU (63676)	Dis- solved oxygen, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	pH, percent of sat- uration (00301)	water, field, std units (00400)	unfltrd conduct- tance, μS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	
Jan 15...	1100	1.5	760	10.8	86	4.2	52	.5	5.4	13.7	9.0
Apr 04...	1030	1.3	761	10.1	91	4.5	44	12.5	10.5	10.8	6.0
Jun 26...	1100	3.0	761	7.3	85	4.4	40	28.0	22.8	7.6	4.2